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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/608 754	06/30/2003	Robert Taylor Scott		7161

7590 06/04/2004

Robert T. Scott 11875 Little Creek Crossing Alpharetta, GA 30005 EXAMINER
HARRIS, KATRINA B

ART UNIT PAPER NUMBER

3747

DATE MAILED: 06/04/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

				u /			
		Application No.	Applicant(s)				
Office Action Summany		10/608,754	SCOTT, ROBERT	TAYLOR			
	Office Action Summary	Examiner	Art Unit				
		Katrina B. Harris	3747				
 Period for	The MAILING DATE of this communication Reply	appears on the cover she	et with the correspondence ac	ldress			
THE M - Extensi after SI - If the p - If NO p - Failure Any rep	RTENED STATUTORY PERIOD FOR RE AILING DATE OF THIS COMMUNICATIO ions of time may be available under the provisions of 37 CFF IX (6) MONTHS from the mailing date of this communication. eriod for reply specified above is less than thirty (30) days, a period for reply is specified above, the maximum statutory per to reply within the set or extended period for reply will, by stoply received by the Office later than three months after the me patent term adjustment. See 37 CFR 1.704(b).	N. R 1.136(a). In no event, however, or common the statutory minimum find will apply and will expire SIX (catute, cause the application to because.	may a reply be timely filed n of thirty (30) days will be considered timel b) MONTHS from the mailing date of this come ABANDONED (35 U.S.C. § 133).				
Status							
1)⊠ F	Responsive to communication(s) filed on 3	<u>0 June 2003</u> .					
2a) <u></u>	This action is FINAL . 2b)⊠ T	This action is non-final.					
3)□ S	Since this application is in condition for allo	wance except for formal	matters, prosecution as to the	e merits is			
C	closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.						
Dispositio	n of Claims		ř				
4)⊠ C	Claim(s) <u>1-14</u> is/are pending in the applicat	ion.		•			
4:	 4a) Of the above claim(s) 12-14 is/are withdrawn from consideration. 5) ☐ Claim(s) is/are allowed. 6) ☐ Claim(s) 1-11 is/are rejected. 						
5) 🗌 C							
6)⊠ (
· 7) 🗌 C	Claim(s) is/are objected to.						
′8)□ (Claim(s) are subject to restriction an	d/or election requiremer	ıt.				
Applicatio	n Papers						
9)☐ The specification is objected to by the Examiner.							
10)□ T	10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.						
A	Applicant may not request that any objection to	the drawing(s) be held in a	beyance. See 37 CFR 1.85(a).				
F	Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).						
11) 🔲 T	he oath or declaration is objected to by the	e Examiner. Note the atta	ached Office Action or form P	ΓΟ-152.			
Priority un	der 35 U.S.C. § 119						
a) 1 2 3	cknowledgment is made of a claim for fore All b) Some * c) None of: Certified copies of the priority docum Copies of the certified copies of the papplication from the International Burse the attached detailed Office action for a	ents have been received ents have been received priority documents have reau (PCT Rule 17.2(a))	d. d in Application No been received in this National	Stage			
Attachment(s							
	of References Cited (PTO-892) of Draftsperson's Patent Drawing Review (PTO-948)		view Summary (PTO-413)				
3) 🔲 Informa	of Draftsperson's Patent Drawing Review (PTO-948) ation Disclosure Statement(s) (PTO-1449 or PTO/SB, No(s)/Mail Date	/08) 5) 🔲 Notic	er No(s)/Mail Date ce of Informal Patent Application (PT0 er:	O-152)			

DETAILED ACTION

The following is a first action on the merits of application serial no. 10/608,754 filed June 30, 2003.

Claim Objections

- 1. Claim 1 is objected to because of the following informalities: the words "What I claim as my invention" should be deleted. The claims should only contain what the invention is claiming as his invention. Appropriate correction is required.
- 2. Claims 12-14 are objected to under 37 CFR 1.75(c) as being in improper form because a multiple dependent claim should refer to other claims in the alternative only. See MPEP § 608.01(n). Accordingly, the claims have not been further treated on the merits.

Claim Rejections - 35 USC § 102

3. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1-11 are rejected under 35 U.S.C. 102(b) as being anticipated by Guenther (DE4327490). Guenther discloses a cam actuated piston/plunger type cylindrical shaped valve (21,22) operating in a reciprocal fashion installed in a companion cylinder and working in conjunction with ported passages in the valve

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cylinder wall to open and close related air passages that govern the intake and exhaust functions of a multi-valve internal combustion engine.

Regarding claim 2, a piston/plunger fitted to a separate ported liner and installed in the engine as a replaceable unit.

Regarding claim 3, installed in the working cylinder head of overhead valve design engines

Regarding claim 4, installed in the block of side valve design engines.

Regarding claim 5, cam actuated using a cam lobe (17,18) shaped where the high point of the lobe provides and maintains positive valve movement to the closure position and the low point of the cam lobe permits the valve under spring tension (19,20) to move to the open position.

Regarding claim 6, actuated by direct cam action or through a levered arrangement.

Regarding claim 7, uses valve diameter sizes in overhead designs that extend the valve edge past or outside the bore area of the working piston (5).

Regarding claim 8, uses valves sized to fit within the bore area of the working piston (5) in overhead designs.

Regarding claim 9, fitted with 1 or more snap type piston rings of gap sealing design where the gap area and wall area are both sealed.

Regarding claim 10, made of metal.

Regarding claim 11, made of material other than metal.

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Conclusion

4. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. U.S. Patent No. 2,033,128 issued to Edds is a similar system having a piston liner. U.S. Patent No. 2,119,226 issued to Ernst is a similar system having a cam actuated piston. Japenese Patent No. JP359226215 issued to Takahasi is a very similar cam actuated system.

Communication

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Katrina B. Harris whose telephone number is 703-308-8323. The examiner can normally be reached on 7:00 AM - 3:30 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Henry Yuen can be reached on 703-308-1946. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

KBH

Hehry C. Yuen
Supervisory Patent Examiner
Group 3700